(#6)

## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/526,060
Source:	P(1/10
Date Processed by STIC:	3/9/05

## ENTERED

## CRF Errors Edited by the STIC Systems Branch

Serial	Number: <u>/0/526, 060</u>	CRF Edit Date: 3/11/05 Edited by: 1
	Realigned nucleic acid/amino acid numbers/text text "wrapped" to the next line	in cases where the sequence
	Corrected the SEQ ID NO. Sequence numbers e	edited were:
COMPANY .	Inserted or corrected a nucleic number at the en NO's edited:	d of a nucleic line. SEQ ID
	Deleted: invalid beginning/end-of-file text;	page numbers
<del></del>	Inserted mandatory headings/numeric identifier	s, specifically:
	Moved responses to same line as heading/numer	ic identifier, specifically:
	Other: Sequerce 7- moved (2137)	response up one live

Revised 09/09/2003



PCT10

RAW SEQUENCE LISTING DATE: 03/11/2005
PATENT APPLICATION: US/10/526,060 TIME: 14:45:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03112005\J526060.raw

```
4 <110> APPLICANT: ASHMAN, Claire
            ELLIS, Jonathan Henry
     7 <120> TITLE OF INVENTION: IMMUNOGENIC COMPOSITION COMPRISING AN
             IL-13 ELEMENT AND T CELL EPITOPES, AND ITS THERAPEUTIC USE
     11 <130> FILE REFERENCE: PG4938
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/526,060
C--> 14 <141> CURRENT FILING DATE: 2005-02-28
     16 <150> PRIOR APPLICATION NUMBER: PCT/GB03/03703
     17 <151> PRIOR FILING DATE: 2003-08-28
     19 <150> PRIOR APPLICATION NUMBER: GB 0304672.9
     20 <151> PRIOR FILING DATE: 2003-02-28
     22 <150> PRIOR APPLICATION NUMBER: GB 0220212.5
     23 <151> PRIOR FILING DATE: 2002-08-30
     25 <160> NUMBER OF SEQ ID NOS: 68
     27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
     29 <210> SEO ID NO: 1
    30 <211> LENGTH: 112
     31 <212> TYPE: PRT
     32 <213> ORGANISM: Homo sapien IL-13
     34 <400> SEQUENCE: 1
     35 Gly Pro Val Pro Pro Ser Thr Ala Leu Arg Glu Leu Ile Glu Glu Leu
     37 Val Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys Asn Gly Ser Met
                    20
                                        25
     39 Val Trp Ser Ile Asn Leu Thr Ala Gly Met Tyr Cys Ala Ala Leu Glu
     41 Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu Lys Thr Gln Arg
                                55
     43 Met Leu Ser Gly Phe Cys Pro His Lys Val Ser Ala Gly Gln Phe Ser
                            70
     45 Ser Leu His Val Arg Asp Thr Lys Ile Glu Val Ala Gln Phe Val Lys
                        85
     47 Asp Leu Leu His Leu Lys Lys Leu Phe Arg Glu Gly Arg Phe Asn
     48
                   100
     51 <210> SEQ ID NO: 2
     52 <211> LENGTH: 111
     53 <212> TYPE: PRT
     54 <213> ORGANISM: Murine IL-13
     56 <400> SEQUENCE: 2
     57 Gly Pro Val Pro Arg Ser Val Ser Leu Pro Leu Thr Leu Lys Glu Leu
                       5
                                            10
    59 Ile Glu Glu Leu Ser Asn Ile Thr Gln Asp Gln Thr Pro Leu Cys Asn
     60
                    20
                                        25
```

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03112005\J526060.raw

```
61 Gly Ser Met Val Trp Ser Val Asp Leu Ala Ala Gly Gly Phe Cys Val
                               40
63 Ala Leu Asp Ser Leu Thr Asn Ile Ser Asn Cys Asn Ala Ile Tyr Arg
65 Thr Gln Arg Ile Leu His Gly Leu Cys Asn Arg Lys Ala Pro Thr Thr
67 Val Ser Ser Leu Pro Asp Thr Lys Ile Glu Val Ala His Phe Ile Thr
                  85
                                       90
69 Lys Leu Leu Ser Tyr Thr Lys Gln Leu Phe Arg His Gly Pro Phe
     100
                                  105
73 <210> SEQ ID NO: 3
74 <211> LENGTH: 111
75 <212> TYPE: PRT
76 <213> ORGANISM: Porcine IL-13
78 <400> SEQUENCE: 3
79 Gly Pro Val Pro Pro His Ser Thr Ala Leu Lys Glu Leu Ile Glu Glu
                  5
81 Leu Val Asn Ile Thr Gln Asn Gln Lys Thr Pro Leu Cys Asn Gly Ser
                                   25
83 Met Val Trp Ser Val Asn Leu Thr Thr Ser Met Gln Tyr Cys Ala Ala
          35
                               40
85 Leu Glu Ser Leu Ile Asn Ile Ser Asp Cys Ser Ala Ile Gln Lys Thr
                           55
87 Gln Arg Met Leu Ser Ala Leu Cys Ser His Lys Pro Pro Ser Glu Gln
                       70
                                           75
89 Val Pro Gly Lys His Ile Arg Asp Thr Lys Ile Glu Val Ala Gln Phe
                  85
                                       90
91 Val Lys Asp Leu Leu Lys His Leu Arg Met Ile Phe Arg His Gly
              100
                                   105
95 <210> SEQ ID NO: 4
96 <211> LENGTH: 112
97 <212> TYPE: PRT
98 <213> ORGANISM: Bovine IL-13
100 <400> SEQUENCE: 4
101 Ser Pro Val Pro Ser Ala Thr Ala Leu Lys Glu Leu Ile Glu Glu Leu
103 Val Asn Ile Thr Gln Asn Gln Lys Val Pro Leu Cys Asn Gly Ser Met
                                    25
105 Val Trp Ser Leu Asn Leu Thr Ser Ser Met Tyr Cys Ala Ala Leu Asp
                                40
107 Ser Leu Ile Ser Ile Ser Asn Cys Ser Val Ile Gln Arg Thr Lys Lys
109 Met Leu Asn Ala Leu Cys Pro His Lys Pro Ser Ala Lys Gln Val Ser
111 Ser Glu Tyr Val Arg Asp Thr Lys Ile Glu Val Ala Gln Phe Leu Lys
                   85
                                        90
113 Asp Leu Leu Arg His Ser Arg Ile Val Phe Arg Asn Glu Arg Phe Asn
                                    105
117 <210> SEQ ID NO: 5
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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03112005\J526060.raw

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118 <211> LENGTH: 111
    119 <212> TYPE: PRT
    120 <213> ORGANISM: Canine IL-13
    122 <400> SEQUENCE: 5
    123 Ser Pro Val Thr Pro Ser Pro Thr Leu Lys Glu Leu Ile Glu Glu Leu
    125 Val Asn Ile Thr Gln Asn Gln Ala Ser Leu Cys Asn Gly Ser Met Val
                                         25
    127 Trp Ser Val Asn Leu Thr Ala Gly Met Tyr Cys Ala Ala Leu Glu Ser
                                     40
    129 Leu Ile Asn Val Ser Asp Cys Ser Ala Ile Gln Arg Thr Gln Arg Met
    131 Leu Lys Ala Leu Cys Ser Gln Lys Pro Ala Ala Gly Gln Ile Ser Ser
    133 Glu Arg Ser Arg Asp Thr Lys Ile Glu Val Ile Gln Leu Val Lys Asn
                        85
                                             90
    135 Leu Leu Thr Tyr Val Arg Gly Val Tyr Arg His Gly Asn Phe Arg
    136
                    100
                                         105
    139 <210> SEQ ID NO: 6
    140 <211> LENGTH: 111
     141 <212> TYPE: PRT
     142 <213> ORGANISM: Rat IL-13
W--> 143 <400> SEQUENCE: 6
    144 Gly Pro Val Arg Arg Ser Thr Ser Pro Pro Val Ala Leu Arg Glu Leu
                         5
                                             10
     146 Ile Glu Glu Leu Ser Asn Ile Thr Gln Asp Gln Lys Thr Ser Leu Cys
                     20
                                         25
    148 Asn Ser Ser Met Val Trp Ser Val Asp Leu Thr Ala Gly Gly Phe Cys
    150 Ala Ala Leu Glu Ser Leu Thr Asn Ile Ser Ser Cys Asn Ala Ile His
                                 55
    152 Arg Thr Gln Arg Ile Leu Asn Gly Leu Cys Asn Gln Lys Ala Ser Asp
                             70
     154 Val Ala Ser Ser Pro Pro Asp Thr Lys Ile Glu Val Ala Gln Phe Ile
                        85
                                             90
     156 Ser Lys Leu Leu Asn Tyr Ser Lys Gln Leu Phe Arg Tyr Gly His
     157
                    100
    160 <210> SEQ ID NO: 7
    161 <211> LENGTH: 111
    162 <212> TYPE: PRT
     163 <213> ORGANISM: Cynomolgus il-13
    165 <400> SEQUENCE: 7
    166 Ser Pro Val Pro Pro Ser Thr Ala Leu Lys Glu Leu Ile Glu Glu Leu
    168 Val Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys Asn Gly Ser Met
                                         25
    170 Val Trp Ser Ile Asn Leu Thr Ala Gly Val Tyr Cys Ala Ala Leu Glu
                                     40
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172 Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu Lys Thr Gln Arg

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03112005\J526060.raw

```
173
174 Met Leu Asn Gly Phe Cys Pro His Lys Val Ser Ala Gly Gln Phe Ser
175 65
                        70
176 Ser Leu Arg Val Arg Asp Thr Lys Ile Glu Val Ala Gln Phe Val Lys
                    85
178 Asp Leu Leu His Leu Lys Lys Leu Phe Arg Glu Gly Gln Phe Asn
179
                100
                                    105
182 <210> SEQ ID NO: 8
183 <211> LENGTH: 112
184 <212> TYPE: PRT
185 <213 > ORGANISM: Rhesus IL-13
187 <400> SEQUENCE: 8
188 Ser Pro Val Pro Arg Ser Thr Ala Leu Lys Glu Leu Ile Glu Glu Leu
190 Val Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys Asn Gly Ser Met
                20
192 Val Trp Ser Ile Asn Leu Thr Ala Gly Val Tyr Cys Ala Ala Leu Glu
194 Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu Lys Thr Gln Arg
196 Met Leu Asn Gly Phe Cys Pro His Lys Val Ser Ala Gly Gln Phe Ser
198 Ser Leu Arg Val Arg Asp Thr Lys Ile Glu Val Ala Gln Phe Val Lys
                    85
                                        90
200 Asp Leu Leu Val His Leu Lys Lys Leu Phe Arg Glu Gly Arg Phe Asn
201
204 <210> SEQ ID NO: 9
205 <211> LENGTH: 112
206 <212> TYPE: PRT
207 <213> ORGANISM: Marmoset IL-13
209 <400> SEQUENCE: 9
210 Gly Pro Val Pro Pro Tyr Thr Ala Leu Lys Glu Leu Ile Glu Glu Leu
212 Val Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys Asn Gly Ser Met
                20
214 Val Trp Ser Ile Asn Met Thr Ala Gly Val Tyr Cys Ala Ala Leu Glu
216 Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu Lys Thr Gln Arg
217
                            55
218 Met Leu Ser Gly Phe Cys Pro His Lys Val Ser Ala Gly Gln Phe Ser
                        70
220 Ser Leu Leu Val Arg Asp Thr Lys Ile Glu Val Ala Gln Phe Val Lys
222 Asp Leu Leu Arg His Leu Arg Lys Leu Phe His Gln Gly Thr Phe Asn
                100
                                    105
226 <210> SEQ ID NO: 10
227 <211> LENGTH: 112
228 <212> TYPE: PRT
229 <213> ORGANISM: Artificial Sequence
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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03112005\J526060.raw

231 <220> FEATURE: 232 <223> OTHER INFORMATION: Chimaeric Homo Sapien IL-13 234 <400> SEQUENCE: 10 235 Gly Pro Val Pro Pro Ser Ser Ala Leu Lys Glu Leu Ile Glu Glu Leu 237 Ala Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys Asn Gly Ser Met 20 25 239 Val Trp Ser Ile Asn Leu Thr Ala Gly Met Tyr Cys Ala Ala Leu Asp 35 40 241 Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu Arg Thr Gln Arg 55 243 Ile Leu Ser Ala Phe Cys Pro His Lys Val Ser Ala Gly Gln Phe Ser 70 245 Ser Leu Arg Val Arg Asp Thr Lys Ile Glu Val Ala Gln Phe Val Thr 247 Asp Leu Leu Val His Leu Lys Arg Leu Phe Arg Gln Gly Thr Phe Asn 248 100 105 251 <210> SEQ ID NO: 11 252 <211> LENGTH: 121 253 <212> TYPE: PRT 254 <213> ORGANISM: Artificial Sequence 256 <220> FEATURE: 257 <223> OTHER INFORMATION: Chimaeric Homo Sapien IL-13 259 <400> SEQUENCE: 11 260 Gly Pro Val Pro Pro Ser Thr Ala Leu Arg Glu Leu Ile Glu Glu Leu 5 262 Val Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys Asn Gly Ser Met 264 Val Trp Ser Ile Asn Leu Thr Ala Gly Met Tyr Cys Ala Ala Leu Glu 266 Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu Lys Thr Gln Arq 268 Met Leu Gly Gly Phe Cys Pro His Lys Phe Asn Asn Phe Thr Val Ser 270 Phe Trp Leu Arg Val Pro Lys Val Ser Ala Ser His Leu Glu Asp Thr 85 90 272 Lys Ile Glu Val Ala Gln Phe Val Lys Asp Leu Leu His Leu Lys 100 105 274 Lys Leu Phe Arg Glu Gly Arg Phe Asn 115 120 278 <210> SEQ ID NO: 12 279 <211> LENGTH: 133 280 <212> TYPE: PRT 281 <213> ORGANISM: Artificial Sequence 283 <220> FEATURE: 284 <223> OTHER INFORMATION: Chimaeric Homo Sapien IL-13 286 <400> SEQUENCE: 12 287 Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser 288 1 10

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/526,060

DATE: 03/11/2005 TIME: 14:45:12

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03112005\J526060.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:143 M:283 W: Missing Blank Line separator, <400> field identifier